



# MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.  
4 BLAIR DRIVE  
BRAMPTON, ONTARIO  
L6T 2H5  
TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666  
**"USE IN CASE OF CHEMICAL EMERGENCY ONLY"**

W.H.M.I.S. CLASSIFICATION: C, D1B, D2B

MATERIAL REFERENCE NO: 520400

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET CSP 204	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: NITRITES
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: CLOSED SYSTEM CORROSION INHIBITOR	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
SODIUM NITRITE	60.0-80.0	NO DATA	7632-00-0	88 MG/KG
BORAX PENTAHYDRATE	5.0-10.0	1 MG/M3	12179-04-3	2660 MG/KG
SODIUM CARBONATE	7.0-13.0	NO DATA	497-19-8	4090 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: POWDER			
ODOUR AND APPEARANCE: OFF WHITE COLOURED POWDER, LOW ODOUR			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT AVAILABLE	2.10	NOT AVAILABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
1	NOT APPLICABLE	(20øC) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
NOT AVAILABLE	NOT AVAILABLE	<5	
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
10-11	NOT AVAILABLE	NOT AVAILABLE	



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## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. SODIUM NITRITE MAY EXPLODE WHEN			
HEATED ABOVE 537(C) AND WILL ACCELERATE COMBUSTION OF ORGANICS OR			
COMBUSTIBLE MATERIALS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, SULFUR			
OXIDES, OXIDES OF SODIUM, CARBON DIOXIDE, CARBON MONOXIDE.			
UPPER EXPLOSION LIMIT   LOWER EXPLOSION LIMIT   AUTOIGNITION TEMP(C)			
NOT APPLICABLE   NOT APPLICABLE   NOT APPLICABLE			
EXPLOSION DATA SENSITIVITY   RATE OF BURNING   EXPLOSIVE POWER			
TO CHEMICAL IMPACT			
CAN EXPLODE UPON SEVERE IMPACT   NOT APPLICABLE   NOT AVAILABLE			
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE.			
IF NO, UNDER WHICH CONDITIONS: PROLONGED EXPOSURE TO AIR WILL SLOWLY			
OXIDIZE NITRITE TO NITRATE.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ACIDS, AMMONIUM COMPOUNDS, REDUCING AGENTS			
SUCH AS CYANIDES, THIOCYANATES AND THIOSULPHATES, COMBUSTIBLE			
MATERIALS.			
REACTIVITY AND UNDER WHAT CONDITIONS: SOLUTIONS CAN BE CORROSIVE TO			
ALUMINUM, LEAD AND ZINC.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN AND SULPHUR.			
VIOLENT EXPLOSIONS MAY OCCUR IF MELTED WITH MAGNESIUM/ALUMINUM.			

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES			
INHALATION: YES INGESTION: YES			



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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |  
| EYES-CONTACT MAY CAUSE IRRITATION. MAY CAUSE EYE BURNS. |  
| SKIN-PROLONGED CONTACT MAY CAUSE MILD TO MODERATE IRRITATION. |  
| INHALATION-HIGH CONCENTRATIONS MAY CAUSE IRRITATION OF RESPIRATORY |  
| TRACT AND LUNGS. |  
| INGESTION-MAY IRRITATE MOUTH, THROAT AND STOMACH. INGESTION OF |  
| LARGER AMOUNTS MAY RESULT IN ACUTE TOXIC EFFECTS WITH NAUSEA, |  
| CONVERSION OF HAEMOGLOBIN TO METHEMOGLOBIN, MARKED REDUCTION IN |  
| BLOOD PRESSURE. |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |  
| INHALATION-PROLONGED OR REPEATED INHALATION MAY CAUSE SYSTEMIC |  
| EFFECTS. |  
| SKIN-PROLONGED CONTACT MAY CAUSE DERMATITIS. |

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMIT(S) | IRRITANCY OF MATL |  
| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE | TOXIC |

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |  
| NOT AVAILABLE | NOT AVAILABLE |

| CARCINOGENICITY-NOT A CARCINOGEN. NITRITES MAY REACT WITH AMINES TO |  
| FORM NITROSAMINES. SOME NITROSOMINES HAVE BEEN SHOWN TO CAUSE CANCER |  
| IN LABORATORY ANIMALS. |  
| REPRODUCTIVE EFFECTS-NO DATA. |  
| MUTAGENICITY- NO DATA. |

## SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR VINYL |  
| RESPIRATORY: DUST RESPIRATOR IF DUSTY CONDITIONS PREVAIL AND TLV |  
| EXCEEDS EXPOSURE LIMITS. |  
| EYE: FACE SHIELD OR SAFETY GOGGLES |  
| CLOTHING: IMPERMEABLE |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AND |  
| GENERAL VENTILATION IN CONFINED AREAS TO MAINTAIN AIRBORNE |  
| CONCENTRATIONS BELOW PERMISSIBLE LEVELS. |

| LEAK AND SPILL PROCEDURE: SWEEP OR SHOVEL INTO APPROPRIATE CONTAINER |  
| FOR RECLAIM OR DISPOSAL. WASH REMAINING RESIDUE WITH COPIOUS AMOUNTS |  
| OF WATER. KEEP CONTAMINATED WATER FROM ENTERING SEWERS AND |  
| WATERWAYS. |

| WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND |  
| FEDERAL REGULATIONS. |



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## SECTION VIII - FIRST AID MEASURES

| PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 |  
| MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. |  
| SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |  
| LARGE AMOUNTS OF SOAP AND WATER. IF PAIN OR IRRITATION PERSIST, SEEK |  
| MEDICAL ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE. |  
| INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |  
| OXYGEN. GET MEDICAL ATTENTION. |  
| INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. RINSE MOUTH WITH |  
| WATER. DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR CONVULSING. |  
| GET IMMEDIATE MEDICAL ATTENTION. |

| SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS |

| ADDITIONAL INFORMATION: NONE |

## SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM NITRITE)	5.1(6.1)	3087	III

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. |  
| HANDLE SUCH THAT DUST IS MINIMIZED. WASH THOROUGHLY AFTER HANDLING. |  
| |

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN |  
| ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE. |

| SPECIAL SHIPPING INFORMATION: OXIDIZER |

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
1	1	2

## SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |  
| REVIEWED: MAY 20, 2009 |

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